

IN THE CLAIMS:

Amend the following claims:

Claims 1-15 cancelled

16. (Currently Amended) An energy absorbing steering device comprising:

an inner shaft member having an outer surface that is circular in cross-section,
an outer cylindrical member press-fitted around the inner shaft member, the
outer cylindrical member having an inner surface that is circular in cross section and the
diameter of the inner surface of the outer cylindrical member is larger than the diameter
of the outer surface of the inner shaft member, and

a plurality of fine members interleaved between the outer cylindrical member
and the inner shaft member, each fine member interleaved between the outer cylindrical
member and the inner shaft member extending along a straight line without being bent
~~along an axial direction of the inner shaft member and the outer cylinder member~~ along
the overlap between the inner shaft member and the outer cylinder member.

17. (previously presented): An apparatus as in claim 16, wherein the fine members
have a Vickers hardness and either (1) the inner shaft member has a Vickers hardness
that differs by at least 200 from the Vickers hardness of the fine members or (2) the
outer cylindrical member has a Vickers hardness that differs by at least 200 from the
Vickers hardness of the fine members.

18. (previously presented): An apparatus as in claim 16, wherein the plurality of fine
members are arranged to require a pre-determined pressing load in order for the outer
cylindrical member to axially displace relative to the inner shaft member.

19. (previously presented): An apparatus as in claim 16, wherein an axially extending
clearance is defined between the inner shaft member and the outer cylindrical member
and proximal to each fine member extending along the straight line without being bent.

20. (previously presented): An apparatus as in claim 16, wherein the length of the fine members along the axial direction is longer than or equal to a predetermined length that ensures a clearance between the inner shaft member and the outer cylindrical member when the inner shaft member and the outer cylindrical member absorb energy and become more deeply fitted.

21. (previously presented): An apparatus as in claim 16, further comprising means for preventing movement of the fine members in the axial direction.

22. (previously presented): An apparatus as in claim 16, wherein the fine members further comprise a coupling portion that fixedly couples the fine members to an end face of the inner shaft member or to an end face of the outer cylindrical member.

23. (previously presented): An apparatus as in claim 22, further comprising means for preventing the coupling portions of the fine members from dislodging from the end face of the inner shaft member or the end face of the outer cylindrical member.

24. (previously presented): An apparatus as in claim 23, wherein the fine members have a Vickers hardness and either (1) the inner shaft member has a Vickers hardness that differs by at least 200 from the Vickers hardness of the fine members or (2) the outer cylindrical member has a Vickers hardness that differs by at least 200 from the Vickers hardness of the fine members.

25. (previously presented): An apparatus as in claim 24, wherein the length of the fine members along the axial direction is longer than or equal to a predetermined length that ensures a clearance between the inner shaft member and the outer cylindrical member when the inner shaft member and the outer cylindrical member absorb energy and become more deeply fitted.

26. (previously presented): An apparatus as in claim 16, wherein the inner shaft member is an inner tube or an inner shaft and the outer cylindrical member is an outer tube or an outer cylinder.

27. (currently amended): A method for assembling an energy absorbing steering device comprising:

extending a plurality of fine members along the axial direction of an outer surface of an inner shaft member or an inner surface of an outer cylindrical member, each fine member extending along a straight line without being bent, and

press-fitting the outer cylindrical member around the inner shaft member, wherein the fine members are disposed within a clearance defined between the inner shaft member and the outer cylindrical member at least along the length of the fine members that are interleaved between the inner shaft member and the outer cylindrical member, each fine member interleaved between the inner shaft member and the outer cylindrical member extending along the straight line without being bent along the overlap between the inner shaft member and the outer cylinder member.

28. (previously presented): A method as in claim 27, wherein during the press-fitting step, at least one of the inner shaft member, the outer cylindrical member, or the fine members is deformed beyond an elastic limit thereof.

29. (previously presented): A method as in claim 27, further comprising during the press-fitting step:

measuring the pressing load being applied, and
cutting the fine members when the measured pressing load reaches a predetermined value.

30. (previously presented): A method as in claim 29, wherein during the press-fitting step, at least one of the inner shaft member, the outer cylindrical member, or the fine members is deformed beyond an elastic limit thereof.

31. (previously presented): A method as in claim 27, wherein a predetermined length of the plurality of fine members is extended along the axial direction of the inner shape of the outer cylindrical member, and the inner shaft member is press-fitted while preventing the fine members from being axially pulled further into the outer cylindrical member.

32. (previously presented): A method as in claim 31, wherein during the press-fitting step, at least one of the inner shaft member, the outer cylindrical member, or the fine members is deformed beyond an elastic limit thereof.

33. (currently amended): An apparatus for assembling an energy absorbing steering device comprising:

means for extending a plurality of fine members along the axial direction of an outer surface of an inner shaft member or an inner surface of an outer cylindrical member, each fine member extending along a straight line without being bent, and

means for pressing-fitting the outer cylindrical member around the inner shaft member, wherein the fine members are disposed within a clearance defined between the inner shaft member and the outer cylindrical member at least along the length of the fine members that are interleaved between the inner shaft member and the outer cylindrical member, each fine member interleaved between the inner shaft member and the outer cylindrical member extending along the straight line without being bent along the overlap between the inner shaft member and the outer cylinder member.

34. (previously presented): An apparatus as in claim 33, further comprising means for deforming at least one of the inner shaft member, the outer cylindrical member, or the fine members beyond an elastic limit thereof.

35. (previously presented): An apparatus as in claim 33, further comprising:

means for measuring the pressing load being applied by the pressing means, and
means for cutting the fine members when the measured pressing load reaches a predetermined value.

36. (previously presented): An apparatus as in claim 33, wherein extending means extends a predetermined length of the plurality of fine members along the axial direction of the inner shape of the outer cylindrical member, and press-fitting means prevents the fine members from being axially pulled further into the outer cylindrical member.

37. (previously presented): An apparatus as in claim 16, wherein the movement of the fine members in the axial direction is prohibited with respect to one of the inner shaft member and outer cylindrical member and is allowed with respect to the other of the inner shaft member and outer cylindrical member.

38. (previously presented): An apparatus as in claim 16, wherein the cross section of each fine member is circular.

39. (previously presented): An apparatus as in claim 16, wherein each fine member is made of steel wire.

40. (previously presented): An apparatus as in claim 16, wherein each fine member is made of steel wire having a property that the rigidity is increased when bent.

41. (previously presented): An apparatus as in claim 33, further comprising a drum for winding said fine members, wherein the wound fine member is pulled from the drum while press-fitting the inner shaft member into the outer cylindrical member.